

LISTING OF CLAIMS

This listing of claims replaces all prior versions and listings of claims in the patent application.

Claim 1 (currently amended): A knitted/woven concealed type slide fastener in which a continuous fastener element row (~~ER~~) ~~composed~~ comprised of a synthetic resin monofilament is knitted or woven into a fastener element attaching portion (~~B~~) of a knitted/woven fastener tape (~~4~~) ~~constituted of~~ having a warp knitting structure or a weaving structure at the same time when the fastener tape (~~4~~) is knitted or woven, the knitted/woven fastener tape (~~4~~) comprising a tape main body (~~A~~) and the fastener element attaching portion (~~B~~), with each coupling head (~~Eh~~) of the continuous fastener element row (~~ER~~) directed toward the fastener tape main body (~~A~~),

the knitted/woven concealed type slide fastener ~~characterized by~~ comprising:

multiple fixing yarns (~~11, 21 to 34~~) which are knitted or woven into the fastener element attaching portion (~~B~~) and which fix each element (~~E~~) of the continuous fastener element row (~~ER~~) onto the fastener element attaching portion (~~B~~),

wherein an exposed portion of each element (~~E~~) of the fastener element row (~~ER~~) covered with respective fixing yarns (~~11, 21 to 34~~) is located on a side of the coupling head, and when it is assumed that a distance from a front end of each coupling head (~~Eh~~) to an inside face of a connecting portion (~~Ee~~) is (a) while a dimension of each element (~~E~~) in a direction of a leg portion thereof covered with the fixing yarns (~~11, 21 to 34~~) is (b), a value of (b/a) is larger than 1/2 and 4/5 or less less, and

a total thickness of each of the multiple fixing yarns for covering a surface of an upper leg portion of each element is 1.5 to 5 times thicker than a thickness of other constituent yarns of the fastener tape.

Claim 2 (cancelled).

Claim 3 (currently amended): The knitted/woven concealed type slide fastener according to claim 1, wherein one or more of warp yarns (~~1', 1'', 35-1, 35-2~~) at a bending portion (~~D~~) of the fastener main body (A) adjacent to a coupling head row of the fastener element row (~~ER~~) is ~~composed~~ comprised of multifilament, and a single fiber size of a constituent filament of the warp yarn (~~1, 1'', 35-1, 35-2~~) is set to 0.5 to 1.5 dTex.

Claim 4 (currently amended): The knitted/woven concealed type slide fastener according to claim 3, wherein a total thickness of each of the warp yarn (~~1', 1'', 35-1, 35-2~~) at the bending portion (~~D~~) of the fastener tape main body adjacent to the coupling head row of the fastener element row (~~ER~~) is set larger than a thickness of other warp knitting yarns (~~1, 2~~) or warp weaving yarns (~~35-1 to 35-N~~) ~~constituting~~ forming a foundation structure of the fastener tape.

Claim 5 (currently amended): The knitted/woven concealed type slide fastener according to claim 4, wherein a unit yarn of the warp yarns (~~1', 1'', 35-1, 35-2~~) at the bending portion (~~D~~) is ~~composed~~ comprised of two or more doubled yarns.

Claim 6 (currently amended): The knitted/woven concealed type slide fastener according to any one of ~~claims 1 to 5~~ claims 1 and 3-5, wherein at least a part of weft yarns (~~12, 13, 40~~) ~~constituting~~ of the element attaching portion (~~B~~) of the fastener tape (4) and the tape main body (A) adjacent to the element attaching portion (~~B~~) have a dry heat shrinking percentage higher by 8 to 20% than that of other constituent yarns (~~1, 2, 11, 21 to 35-N~~) of the fastener tape.

Claim 7 (currently amended): The knitted/woven concealed type slide fastener according to claim 4, wherein all other constituent yarns (~~1, 1', 1'', 2, 35-1 to 35-N~~) of the fastener tape (4) except the fixing warp yarn (~~11, 21 to 34~~) and the weft yarn (~~3, 12, 13, 40~~) are ~~composed~~ comprised of multiple filament yarns, and a single fiber size of each constituent filament is 0.5 to 1.5 dTex.

Claim 8 (currently amended): The knitted/woven concealed type slide fastener according to claim 7, wherein a single fiber size of each constituent filament of the weft yarn (~~3, 40~~) which is part of the constituent yarns of the tape main body (A) is 1.5 to 4.0 dTex.

Claim 9 (currently amended): The knitted/woven concealed type slide fastener according to any one of ~~claims 1 to 3~~ claims 1 and 3, wherein the fastener tape (4) is ~~constituted~~ comprised of a warp knitting structure, the fixing warp yarn is ~~composed~~ comprised of a warp knitting yarn (~~11~~), and a total thickness of the warp knitting yarn (~~1'~~) adjacent to a wale proximate to the tape main body (A) is set larger than that of other composition knitting yarns (~~1, 1''~~) of a foundation structure except the fixing warp knitting yarn (~~11~~).

Claim 10 (currently amended): The knitted/woven concealed type slide fastener according to claim 9, wherein the knitting yarns ~~constituting~~ of a wale (~~W₄~~) knitted in the tape main body (a) most adjacent to the fixing warp knitting yarn (~~11~~) comprise two or more kinds of warp knitting yarns and two kinds of weft in-laid yarns (~~12, 13~~) which are weft-inserted and folded back to right and left direction with respect to a course direction in the wale (~~W₄~~), and at least the weft in-laid yarns (~~12, 13~~) in the right and left direction have a dry heat shrinking percentage higher by 8 to 20% than that of other composition knitting yarns of the wale (~~W₄~~).

Claim 11 (currently amended): The knitted/woven concealed type slide fastener according to claim 8, wherein the fixing warp knitting yarn (~~11~~) is ~~composed~~ comprised of a chain knitting yarn, and a needle loop thereof strides over a top face of an upper leg portion of the fastener element while a sinker loop thereof is connected to the foundation structure.

Claim 12 (currently amended): The knitted/woven concealed type slide fastener according to claim 10, wherein the knitting yarns constituting of the wale (~~W₄~~) knitted in the tape main body (~~A~~) most adjacent to the fixing warp knitting yarn (~~11~~) are ~~composed~~ comprised of a chain knitting yarn (~~1~~) and a tricot knitting yarn or two needle stitch yarn.

Claim 13 (currently amended): The knitted/woven concealed type slide fastener according to claim 9, wherein the fixing warp knitting yarn (~~11~~) is ~~composed~~ comprised of a chain knitting yarn, and a needle loop thereof strides over a top face of an upper leg portion of the fastener element while a sinker loop thereof is connected to the foundation structure.

Claim 14 (currently amended): The knitted/woven concealed type slide fastener according to claim 11, wherein the knitting yarns constituting of the wale (~~W₄~~) knitted in the tape main body (~~A~~) most adjacent to the fixing warp knitting yarn (~~11~~) are ~~composed~~ comprised of a chain knitting yarn (~~1~~) and a tricot knitting yarn or two needle stitch yarn.

Claim 15 (currently amended): The knitted/woven concealed type slide fastener according to claim 13, wherein the knitting yarns constituting of the wale (~~W₄~~) knitted in the tape main body (~~A~~) most adjacent to the fixing warp knitting yarn (~~11~~) are ~~composed~~ comprised of a chain knitting yarn (~~1~~) and a tricot knitting yarn or two needle stitch yarn.